DATE: 05/18/2001

TIME: 12:52:22

Input Set : A:\Pto.amc Output Set: N:\CRF3\05182001\1839185.raw SEQUENCE LISTING (1) GENERAL INFORMATION: (i) APPLICANT: Schmidt, Eduard Daniel Leendert De Vries, Sape Cornelis 6 Hecht, Valerie France Gabrielle 7 9 (ii) TITLE OF INVENTION: Apomixis Conferred By Expression of SERK 10 Interacting Proteins (iii) NUMBER OF SEQUENCES: 18 12 (iv) CORRESPONDENCE ADDRESS: 14 15 (A) ADDRESSEE: Syngenta Patent Dept. 16 (B) STREET: 3054 Cornwallis Road (C) CITY: RTP 17 (D) STATE: NC 18 (E) COUNTRY: USA 19 (F) ZIP: 27709 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk 23 (B) COMPUTER: IBM PC compatible 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 26 28 (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US/09/839,185 .c--> 29 C--> 30 (B) FILING DATE: 19-Apr-2001 (C) CLASSIFICATION: 31 (viii) ATTORNEY/AGENT INFORMATION: 33 (A) NAME: Meigs, J. Timothy 34. (B) REGISTRATION NUMBER: 38,241 35 36 (C) REFERENCE/DOCKET NUMBER: S-30683A (ix) TELECOMMUNICATION INFORMATION: 38 (A) TELEPHONE: 919-541-8587 39 42 (2) INFORMATION FOR SEQ ID NO: 1: (i) SEQUENCE CHARACTERISTICS: 44 (A) LENGTH: 551 base pairs 45 46 (B) TYPE: nucleic acid (C) STRANDEDNESS: double 47 (D) TOPOLOGY: linear 48 50 (ii) MOLECULE TYPE: cDNA to mRNA 52 (iii) HYPOTHETICAL: NO -> 54 (iv) ANTI-SENSE: NO 56 (vi) ORIGINAL SOURCE: 57 (A) ORGANISM: Arabidopsis thaliana (vii) IMMEDIATE SOURCE: 59 60 (B) CLONE: 3A35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 63 65 ACGTGTCCGT GGAGGCGGGT CGGGTCAGTC GGGTCAGATA CCAAGGTGCC AAGTGGAAGG 60 67 TTGTGGGATG GATCTAACCA ATGCAAAAGG TTATTACTCG AGACACCGAG TTTGTGGAGT 120 69 GCACTCTAAA ACACCTAAAG TCACTGTGGC TGGTATCGAA CAGAGGTTTT GTCAACAGTG 180

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/839,185

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Input Set : A:\Pto.amc

Output Set: N:\CRF3\05182001\1839185.raw

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     77 CTTTCTTGGG AACCAAGAGA TAGGATGGCC AAGTTCAAGA ACATTGGATA CAAGAGTGAT
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     79 GAGGCGGCCA GTGTCATCAC CGTCATGGCA GATCAATCCA ATGAATGTAT TTAGTCAAGG
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     81 TTCAGTTGGT GGAGGAAGGA CAAGCTTCTC ATCTCCAGAG ATTATGGACA CTAAACTAGA
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                  (B) TYPE: amino acid
                  (C) STRANDEDNESS: single
     90
     91
                  (D) TOPOLOGY: linear
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            (ii) MOLECULE TYPE: protein
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           (iii) HYPOTHETICAL: NO
C--> 97
            (iv) ANTI-SENSE: NO
            (vi) ORIGINAL SOURCE:
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                   (A) ORGANISM: Arabidopsis thaliana
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            (vii) IMMEDIATE SOURCE:
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     103
                   (B) CLONE: 3A35
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             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
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    115
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                                                       75
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    124
                                                   90
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                          100
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    130
                                          120
                                                               125
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    133
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                                      135
              Arg Arg Lys Pro Gln Pro Ala Ser Leu Ser Val Leu Ala Ser Arg Tyr
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    136
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                                  150
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                                                  170
              Gly Ser Phe Leu Gly Asn Gln Glu Ile Gly Trp Pro Ser Ser Arg Thr
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    142
                                              185
                                                                   190
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              Leu Asp Thr Arg Val Met Arg Arg Pro Val Ser Ser Pro Ser Trp Gln
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RAW SEQUENCE LISTING DATE: 05/18/2001
PATENT APPLICATION: US/09/839,185 TIME: 12:52:22

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05182001\1839185.raw

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                                                     235
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    154
                             245
                                                 250
    156
             157
                         260
                                             265
             Asn Asn Asn Thr Trp Arg Ala Ser Ser Gly Phe Gly Pro Met Thr Val
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                                         280
    162
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                                     295
                                                         300
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                                 310
                                                     315
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                             325
                                                 330
    171
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                                             345
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                                         360
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    178
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                  (B) TYPE: nucleic acid
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                  (C) STRANDEDNESS: double
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                  (D) TOPOLOGY: linear
            (ii) MOLECULE TYPE: cDNA to mRNA
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    190
           (iii) HYPOTHETICAL: NO
C--> 192
            (iv) ANTI-SENSE: NO
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            (vi) ORIGINAL SOURCE:
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                  (A) ORGANISM: Arabidopsis thaliana
           (vii) IMMEDIATE SOURCE:
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                  (B) CLONE: 3B39
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    209 AGGAGACGAA GACAAAAGGA AGAAGGTGAT GGAAAGAGTT AGAGGTCCTA GCACTGACCG
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    211 TGTTCCATCG CGACTGTGCC AGGTCGATAG GTGCACTGTT AATTTGACTG AGGCCAAGCA
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    221 GACTCAAGAA AGAAACAGGG TAGACAGGAA ACTTCCTATG ACCAACTCAT CATTTAAGGG
    223 ACCACAGATC AGATAAACCC TCCCGCTCTC TCTCTTCTGT CATCTACATA TGCTCTATCT
    225 ACACTCTTAT TAGACAAATA ATGGCATCTA ACAATGTCAA GAAAAGTTGG TCATGGTATT
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    227 AAATCCTAGA GGGAAATATA AGTATAAACC TTTAGTCCCC TTTATGCTGT CCTGTAATGA
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    229 ATATCTATCC GGAAATGTAT TCGCATAGTC TTGCGTCTAA TAATGTTTAT TAAAAAAAA
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    231 ΑΑΑΑΑΑΑΑΑ ΑΑΑΑΑΑΑΑ
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RAW SEQUENCE LISTING DATE: 05/18/2001 PATENT APPLICATION: US/09/839,185 TIME: 12:52:22

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05182001\I839185.raw

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                (C) STRANDEDNESS: single
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                (D) TOPOLOGY: linear
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          (ii) MOLECULE TYPE: protein
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         (iii) HYPOTHETICAL: NO
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          (iv) ANTI-SENSE: NO
> 245
  247
          (vi) ORIGINAL SOURCE:
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                (B) CLONE: 3B39
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          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
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  260
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           Val Asp Arg Cys Thr Val Asn Leu Thr Glu Ala Lys Gln Tyr Tyr Arg
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                 (B) TYPE: nucleic acid
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                 (C) STRANDEDNESS: double
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                 (D) TOPOLOGY: linear
  298
          (ii) MOLECULE TYPE: cDNA to mRNA
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          (iii) HYPOTHETICAL: NO
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  304
          (iv) ANTI-SENSE: NO
           (vi) ORIGINAL SOURCE:
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                 (A) ORGANISM: Arabidopsis thaliana
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RAW SEQUENCE LISTING DATE: 05/18/2001 PATENT APPLICATION: US/09/839,185 TIME: 12:52:22

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Output Set: N:\CRF3\05182001\1839185.raw

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     323 ACAACGAGAG AAGGCGGAAA AGCACAACTG ACTAAAGACG GTGAAACGTG TGAGATCCCG
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                   (B) TYPE: amino acid
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                   (C) STRANDEDNESS: single
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             (ii) MOLECULE TYPE: protein
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            (iii) HYPOTHETICAL: NO
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C--> 343
             (vi) ORIGINAL SOURCE:
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                   (A) ORGANISM: Arabidopsis thaliana
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     367
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                                                       75
             Lys Ala Pro His Val Arg Ile Ser Gly Leu His Gln Arg Phe Cys Gln
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              Gln Cys Ser Arg Phe His Ala Leu Ser Glu Phe Asp Glu Ala Lys Arg
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                   (B) TYPE: nucleic acid
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                   (C) STRANDEDNESS: double
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                   (D) TOPOLOGY: linear
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VERIFICATION SUMMARY DATE: 05/18/2001 PATENT APPLICATION: US/09/839,185 TIME: 12:52:23

Input Set : A:\Pto.amc

Output Set: N:\CRF3\05182001\I839185.raw

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